

## CLAIMS

What is claimed is:

- 5           1.     A portable viewing and computing apparatus comprising:
- a bus;
- a memory unit coupled to said bus for storing data and instructions;
- a processor coupled to said bus for processing said data and
- instructions;
- 10           a display device coupled to said bus and comprising a viewing panel
- viewable from a front side and a back side; and
- a display device controller coupled to said bus and for sensing
- orientation and rotation of said display device, and in response thereto for
- controlling said display device.
- 15           2.     The portable viewing and computing apparatus as recited in Claim
- 1 wherein said display device controller is also for rendering data, stored in said
- memory, viewable on said front side of said display device when said front side
- is in a forward facing orientation, relative to a user.
- 20           3.     The portable viewing and computing apparatus as recited in Claim
- 1 wherein said display device controller is also for rendering data, stored in said

memory, viewable on said back side of said display device when said back side \_  
is in a forward facing orientation, relative to a user.

4. The portable viewing and computing apparatus as recited in Claim  
5 1 wherein said display device controller senses and responds to said  
orientation of said display device, such that when said front side of said display  
device is in a forward facing orientation, relative to a user, said display device  
controller renders data thereon, and when said back side of said display device  
is in a forward facing orientation, relative to a user, said display device  
10 controller renders data thereon.

5. The portable viewing and computing system as recited in Claim 1  
wherein said display device controller senses and responds to said rotation of  
said display device, such that a rotation of said display device in a direction  
15 causes said display device controller to render data thereon a forward facing  
side, and a rotation in opposition to said direction causes said display device  
controller to re-render data previously rendered thereon a forward facing side.

6. The portable viewing and computing system as recited in Claim 1  
20 wherein said data, stored in said memory, is of an amount greater than can be  
displayed on a single side of said display device.

7. The portable viewing and computing system as recited in Claim 1 wherein said rotation of said display device is about a vertical axis and about a horizontal axis.

5 8. The portable viewing and computing system as recited in Claim 1 is further comprising a communication device coupled to said bus, said communication device for providing communication enablement to said portable viewing and computing apparatus.

10 9. The portable viewing and computing system as recited in Claim 1 is further comprising a data storage device adapted to receive SD (secure digital) cards and MMC (multimedia card) and memory sticks.

15 10. The portable viewing and computing apparatus as recited in Claim 8 wherein said communication device is a wireless modem.

11. The portable viewing and computing apparatus as recited in Claim 9 wherein said wireless modem is Bluetooth enabled.

20 12. The portable viewing and computing apparatus as recited in Claim 1 wherein said display device is transparent.

13. A system of portable computers comprising:

a palmtop computer system comprising a receiving slot configured with a first hinge interface connector disposed therein and adapted to receive a second hinge interface connector; and

a portable viewing and computing apparatus comprising:

5 a bus;

a memory unit coupled to said bus for storing data and instructions;

a processor coupled to said bus for processing said data and said instructions;

10 a display device coupled to said bus and comprising a viewing panel viewable from a front side and a back side;

a display device controller coupled to said bus, said display device controller for sensing orientation and rotation of said display device and for controlling said display device; and

15 said second hinge interface connector adapted to provide communicative coupling of said portable viewing and computing apparatus with said palmtop computer system, provided said second hinge interface connector is inserted in said receiving slot of said palmtop computer system, such that said first hinge interface connector is contacted with said second hinge interface connector.

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14. The system as recited in Claim 13 wherein said display device controller is also for rendering data, stored in said memory, viewable on said

front side of said display device when said front side is in a forward facing orientation, relative to a user.

15. The system as recited in Claim 13 wherein said display device controller is also for rendering data, stored in said memory, viewable on said back side of said display device when said back side is in a forward facing orientation, relative to a user.

16. The system as recited in Claim 13 wherein said display device controller senses and responds to said orientation of said display device, such that when said front side of said display device is in a forward facing orientation, relative to a user, said display device controller renders data thereon, and when said back side of said display device is in a forward facing orientation, relative to a user, said display device controller renders data thereon.

17. The system as recited in Claim 13 wherein said display device controller senses and responds to said rotation of said display device, such that a rotation of said display device in a direction causes said display device controller to render data, stored in said memory of said portable viewing and computing apparatus, thereon a forward facing side, and a rotation in opposition to said direction causes said display device controller to re-render data, stored in said memory of said portable viewing and computing apparatus, previously rendered thereon a forward facing side.

18. The system as recited in Claim 13 wherein said data, stored in said memory of said portable viewing and computing apparatus, is of an amount greater than can be displayed on a single side of said display device.

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19. The system as recited in Claim 13 wherein said rotation of said display device of said portable viewing and computing apparatus is about a vertical axis and about a horizontal axis.

10 20. The system as recited in Claim 13 wherein said portable viewing and computing device further comprises a data storage device adapted to receive SD (secure digital) cards and MMC (multi-media) cards and memory sticks.

15 21. The system as recited in Claim 13 wherein said portable viewing and computing system further comprises a communication device coupled to said bus, said communication device for providing communication enablement to said portable viewing and computing apparatus.

20 22. The system as recited in Claim 21 wherein said communication device is a wireless modem.

23. The system as recited in Claim 21 wherein said wireless modem is Bluetooth enabled.

24. The system as recited in Claim 12 wherein said display device of said portable viewing and computing apparatus is transparent.

25. A method for displaying data on a display device of a portable viewing and computing apparatus, said method comprising the steps of:

- a) rotating said portable viewing and computing apparatus, in a direction, so as to cause rendering of first data on a first side of said display device of said portable viewing and computing apparatus;
  - b) rotating said portable viewing and computing apparatus in said direction so as to cause rendering of second data on a second facing side of said display device of said portable viewing and computing apparatus;
  - c) rotating of said portable viewing and computing apparatus in said direction so as to cause rendering of third data on said first facing side of said display device of said portable viewing and computing apparatus; and
- wherein said first facing side and said second facing side are different sides of said display device of said portable viewing and computing apparatus.

26. The method for displaying data as recited in Claim 25 further comprises the step of:

d) rotating in opposition to said direction said portable viewing and computing apparatus so as to cause re-rendering of said second data on second side of said portable viewing and computing apparatus.

5           27.    The method for displaying data as recited in Claim 25 wherein said rotating of said step a) is about a vertical axis.

          28.    The method for displaying data as recited in Claim 25 wherein said rotating in said step a) is about a horizontal axis.

10           29.    The method for displaying data as recited in Claim 25 wherein said data, stored in said memory of said portable viewing and computing apparatus, is of an amount greater than can be displayed on a single side of said display device of said portable viewing and computing apparatus.